

Claim Amendments

CLAIM LISTING

The following claims listing replaces all previous claims listings:

Claims 1-13 (Canceled).

14. (Amended) An isolated nucleic acid molecule consisting of a sequence encoding a DD, DED, or NB-ARC domain-containing polypeptide selected from:

(a) DNA encoding the amino acid sequence set forth in ~~any of SEQ ID NOS:2, 4, 6, 8, 10, 12, 53, 56 or 58~~ SEQ ID NO:6; or and

(b) DNA that hybridizes to the DNA of (a) under moderately stringent conditions, ~~wherein said DNA encodes a biologically active DD, DED, or NB-ARC domain, provided said nucleic acid molecule does not consist of a nucleic acid molecule encoding the amino acid sequence of any of SEQ ID NOS:14, 24, 28, 55 or 57.~~

15. (Amended) A vector ~~containing a~~ capable of expressing a nucleic acid molecule of claim 14.

16. (Amended) Recombinant cells ~~containing~~ capable of expressing a nucleic acid molecule of claim 14.

Claim 17 (Canceled)

18. ~~The~~ An isolated nucleic acid molecule of claim 14, said nucleic acid consisting of the sequence of SEQ ID NO:5 encoding a DD, DED, or NB-ARC domain set forth in any of SEQ ID NOS:1, 3, 5, 7, 9, 11, or 52 provided said nucleic acid molecule does not consist of a nucleic acid molecule encoding the sequence of any of SEQ ID NOS:13, 23, 27, or 54.

Claims 19-22 (Canceled)

23. A method for expression of an amino acid of SEQ ID NO:6 ~~a DD, DED or NB-ARC domain~~, said method comprising culturing cells of claim 16 under conditions suitable for expression of said amino acid of SEQ ID NO:6 ~~DD, DED or NB-ARC domain~~.

Claims 24-52 (Canceled)

53. (New) An isolated nucleic acid molecule consisting of a label linked to DNA consisting of a sequence selected from the group consisting of:

- (a) DNA encoding the amino acid sequence set forth in SEQ ID NO:6; and
- (b) DNA that hybridizes to the DNA of (a) under moderately stringent conditions.

54. (New) The isolated nucleic acid of claim 53, said DNA consisting of a sequence set forth in SEQ ID NO:5.

55. (New) The isolated nucleic acid of claim 53, said label being a fluorescent labeling agent.

56. (New) The isolated nucleic acid of claim 53, wherein said label is a radioactive element.

57. (New) The isolated nucleic acid of claim 53, wherein said label is an enzyme.

58. (New) The isolated nucleic acid of claim 57, wherein said label is selected from the group consisting of horseradish peroxidase and glucose oxidase.

59. (New) An isolated nucleic acid molecule encoding a fusion protein, the nucleic acid consisting of a chimeric non-naturally occurring DNA consisting of first and second DNA fragments, the first DNA fragment consisting of a sequence selected from the group consisting of:

- (a) DNA encoding the amino acid sequence set forth in SEQ ID NO:6; and
- (b) DNA that hybridizes to the DNA of (a) under moderately stringent conditions; and the second DNA fragment having a sequence coding for a heterologous protein.

60. (New) The isolated nucleic acid of claim 59, said first DNA fragment having a sequence set forth in SEQ ID NO:5.

61. (New) The isolated nucleic acid of claim 59, said second DNA fragment encoding a glutathione-S-transferase, an antibody, luciferase, green fluorescent protein, LexA binding domain, ricin or α -sarcin.

62. (New) The isolated nucleic acid of claim 59, said second DNA fragment encoding hemagglutinin epitope tag.